

MODEL **L16-AES**  
 VOLTAGE **6**  
 CAPACITY **333Ah @ 20Hr**  
 MATERIAL **Polypropylene**  
 BATTERY **VRLA AGM / Non-Spillable / Maintenance-Free**  
 COLOR **Maroon**  
 WATERING **No Watering Required**



## 6 VOLT

### PHYSICAL SPECIFICATIONS

| BCI | MODEL NAME | TERMINAL TYPE | DIMENSIONS ° INCHES (mm) |            |             | WEIGHT ° LBS. (kg) | HANDLES      | INSTALLATION ORIENTATION |
|-----|------------|---------------|--------------------------|------------|-------------|--------------------|--------------|--------------------------|
|     |            |               | LENGTH                   | WIDTH      | HEIGHT °    |                    |              |                          |
| 903 | L16-AES    | M8/DT/LT      | 11.66 (296)              | 6.94 (176) | 16.41 (417) | 121 (55)           | Braided Rope | Horizontal and Vertical  |

### ELECTRICAL SPECIFICATIONS

| VOLTAGE | CRANKING PERFORMANCE |              | CAPACITY ° MINUTES |           | CAPACITY ° AMP-HOURS (Ah) |       |       |        | ENERGY (kWh) | INTERNAL RESISTANCE (mΩ) | SHORT CIRCUIT CURRENT (amps) |
|---------|----------------------|--------------|--------------------|-----------|---------------------------|-------|-------|--------|--------------|--------------------------|------------------------------|
|         | C.C.A. ° @0°F        | C.A. ° @32°F | @ 25 Amps          | @ 75 Amps | 5-Hr                      | 10-Hr | 20-Hr | 100-Hr |              |                          |                              |
| 6       | —                    | —            | 735                | 206       | 290                       | 310   | 333   | 392    | 2.35         | 1.7                      | 3650                         |

### CHARGING INSTRUCTIONS

| CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)  |                        |       |       |       |       |
|--|------------------------|-------|-------|-------|-------|
| SYSTEM VOLTAGE   | 6V                     | 12V   | 24V   | 36V   | 48V   |
| Maximum Charge Current (A)   | 50% of C <sub>20</sub> |       |       |       |       |
| Absorption Voltage (2.40 V/cell)   | 7.20                   | 14.40 | 28.80 | 43.20 | 57.60 |
| Float Voltage (2.25 V/cell)  | 6.75                   | 13.50 | 27.00 | 40.50 | 54.00 |
| Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery. |                        |       |       |       |       |

### CHARGING TEMPERATURE COMPENSATION

| ADD   | SUBTRACT  |
|---|---|
| 0.005 volt per cell for every 1°C below 25°C<br>0.0028 volt per cell for every 1°F below 77°F | 0.005 volt per cell for every 1°C above 25°C<br>0.0028 volt per cell for every 1°F above 77°F |

### OPERATIONAL DATA

| OPERATING TEMPERATURE  | SELF DISCHARGE   |
|--|--|
| -40°F to 140°F (-40°C to +60°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%. | Less than 3% per month depending on storage temperature conditions |

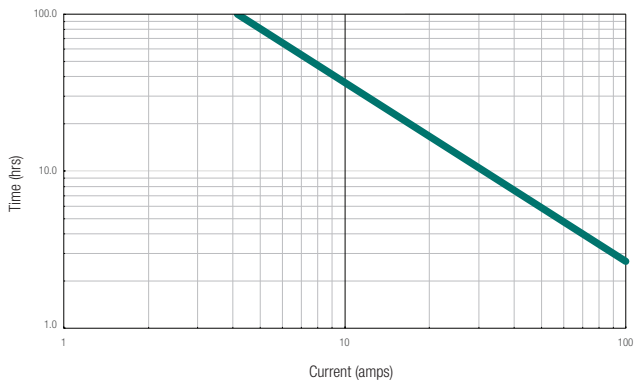
### RECYCLE RESPONSIBLY

|                |   |        |
|----------------|---|--------|
| 99% RECYCLABLE |  | 6V AGM |
|----------------|---|--------|

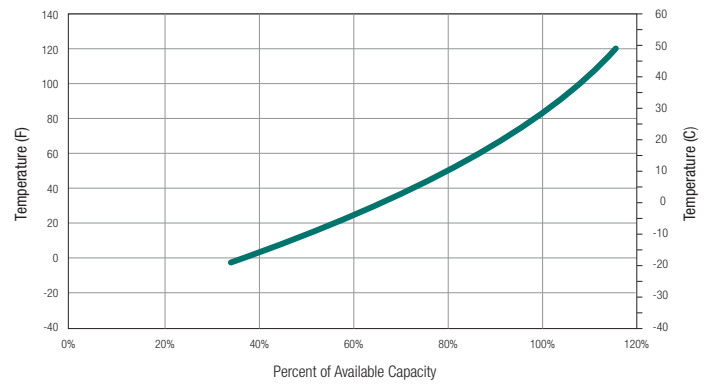
### STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

| PERCENTAGE CHARGE | CELL | 6 VOLT |
|-------------------|------|--------|
| 100               | 2.14 | 6.42   |
| 75                | 2.09 | 6.27   |
| 50                | 2.04 | 6.12   |
| 25                | 1.99 | 5.97   |
| 0                 | 1.94 | 5.82   |

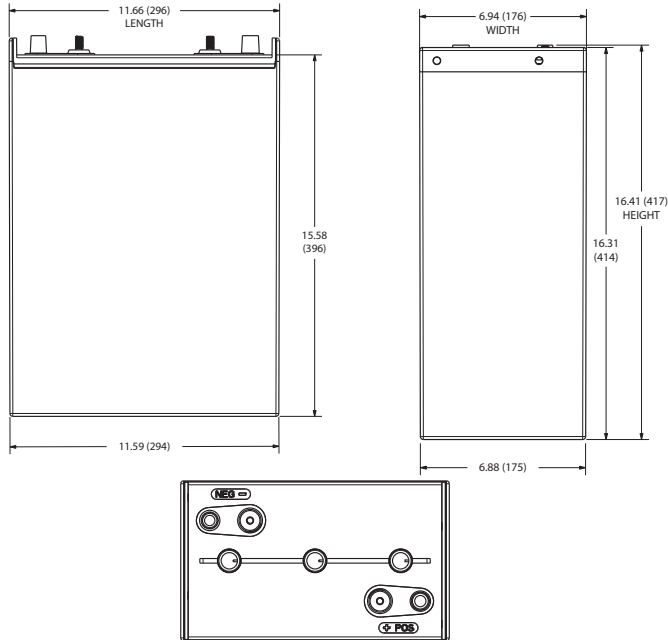
## TROJAN L16-AES PERFORMANCE



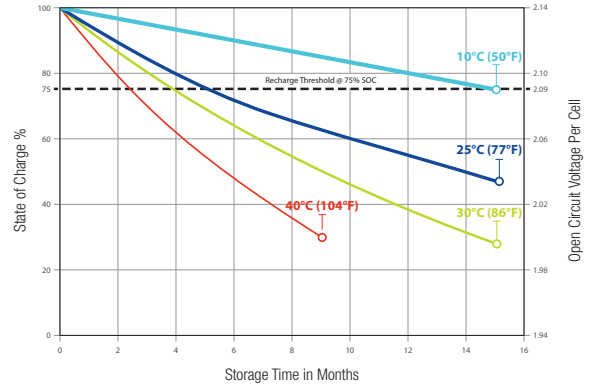
## PERCENT CAPACITY VS. TEMPERATURE



## BATTERY DIMENSIONS (shown with DT)



## SELF DISCHARGE VS. TIME<sup>H</sup>



## TERMINAL TYPE<sup>G</sup>

| 15 | M8  | M8  |
|----|---|---|
|    | <b>Battery Height with Terminal in Inches (mm)</b><br>15.97 (406)<br><b>Torque Values in-lb (Nm)</b><br>Bolt: 85 – 90 (10 – 11)   |   |
| 15 | M8  | M8 WITH LT ADAPTER (ADAPTER PROVIDED BUT NOT INSTALLED) |
|    | <b>Battery Height with Terminal in Inches (mm)</b><br>15.15 (385)<br><b>Torque Values in-lb (Nm)</b><br>Connection to M8: 85 – 90 (10-11)<br>Connection to LT: 65 – 75 (7.5 – 8.5)<br><b>Bolt Size</b><br>M8 x 1.25 |   |

| 6 | DT   | AUTOMOTIVE POST & STUD |
|---|--|------------------------|
|   | <b>Battery Height with Terminal in Inches (mm)</b><br>16.41 (417)<br><b>Torque Values in-lb (Nm)</b><br>Connected to Stud: 95 – 105 (11 – 12)<br>Connected to AP: 50 – 70 (6 – 8)<br><b>Bolt Size</b><br>5/16" |                        |

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- B. The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- C. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing minimum.
- D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F (-18°C) at a voltage above 1.2 V/cell.

- E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F (0°C) at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.
- F. Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- G. Terminal images are representative only.
- H. Batteries in storage should be charged when they decline to 75% State of Charge (SOC).
- I. Weight may vary.



Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.

